

Ag. Waste Application and Excavated Ponds
Washabaugh County, South
Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

| Map symbol and soil name | Pct. of map unit | Application of manure and food- processing waste | | Aquifer-fed excavated ponds | |
|-----------------------------|---------------------------|--------------------------------------------------------------------------------------|------------------------------|---------------------------------------|-------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| Aa: Lohmiller----- | 80 | Very limited Flooding Restricted permeability | 1.00 0.89 | Very limited Deep to water | 1.00 |
| AlA: Altvan----- | 90 | Very limited Filtering capacity Droughty | 1.00 0.03 | Very limited Deep to water | 1.00 |
| AlC: Altvan----- | 85 | Very limited Filtering capacity Droughty | 1.00 0.03 | Very limited Deep to water | 1.00 |
| AvD: Anselmo----- | 50 | Very limited Filtering capacity | 1.00 | Very limited Deep to water | 1.00 |
| Valentine----- | 40 | Very limited Filtering capacity Slope Leaching limitation Droughty | 1.00 0.84 0.45 0.29 | Very limited Deep to water | 1.00 |
| Ba: Badland----- | 35 | Not rated | | Not rated | |
| Denby----- | 25 | Very limited Restricted permeability Sodium content | 1.00 1.00 | Very limited Deep to water | 1.00 |

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Dakota

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|---------------------------------|---------------------------|----------------------------------------------------------------------------|------------------------------|---------------------------------------|-------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| Interior----- | 20 | Very limited Flooding Sodium content | 1.00 1.00 | Very limited Deep to water | 1.00 |
| Bk: Badland----- | 85 | Not rated | | Not rated | |
| CaF: Canyon----- | 55 | Very limited Slope Depth to bedrock Droughty Runoff limitation | 1.00 1.00 1.00 0.40 | Very limited Deep to water | 1.00 |
| Oglala----- | 25 | Very limited Slope | 1.00 | Very limited Deep to water | 1.00 |
| Cc: Canyon----- | 50 | Very limited Slope Depth to bedrock Droughty Runoff limitation | 1.00 1.00 1.00 0.40 | Very limited Deep to water | 1.00 |
| Rock Outcrop, Sandstone----- | 30 | Not rated | | Not rated | |
| Cy: Denby----- | 80 | Very limited Restricted permeability Sodium content | 1.00 1.00 | Very limited Deep to water | 1.00 |
| EhF: Epping----- | 50 | Very limited Slope Depth to bedrock Droughty Runoff limitation | 1.00 1.00 1.00 0.40 | Very limited Deep to water | 1.00 |

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Dakota

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|---------------------------------|---------------------------|----------------------------------------------------------------------------|------------------------------|---------------------------------------|-------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| Kadoka----- | 30 | Somewhat limited Slope Depth to bedrock | 0.63 0.42 | Very limited Deep to water | 1.00 |
| EkE: Epping----- | 50 | Very limited Depth to bedrock Droughty Slope Runoff limitation | 1.00 1.00 0.63 0.40 | Very limited Deep to water | 1.00 |
| Kadoka----- | 30 | Somewhat limited Slope Depth to bedrock | 0.63 0.42 | Very limited Deep to water | 1.00 |
| Er: Epping----- | 50 | Very limited Slope Depth to bedrock Droughty Runoff limitation | 1.00 1.00 1.00 0.40 | Very limited Deep to water | 1.00 |
| Rock Outcrop, Sandstone----- | 30 | Not rated | | Not rated | |
| GoA: Mobridge----- | 90 | Not limited | | Very limited Deep to water | 1.00 |
| Gr: Nihill----- | 80 | Somewhat limited Slope Droughty | 0.96 0.09 | Very limited Deep to water | 1.00 |
| HhA: Haverson----- | 90 | Not limited | | Very limited Deep to water | 1.00 |
| HlA: Haverson----- | 90 | Somewhat limited Flooding | 0.60 | Very limited Deep to water | 1.00 |
| HoA: Haverson----- | 90 | Somewhat limited Flooding | 0.60 | Very limited Deep to water | 1.00 |

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Dakota

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|-----------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------|----------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| Hs: Hisle----- | 80 | Very limited Restricted permeability Droughty Sodium content Depth to bedrock Runoff limitation | 1.00 1.00 1.00 0.42 0.40 | Very limited Deep to water | 1.00 |
| Hv: Hoven----- | 90 | Very limited Restricted permeability Depth to saturated zone Ponding Sodium content Salinity | 1.00 1.00 1.00 1.00 0.50 | Somewhat limited Salty water Slow refill Cutbanks cave | 0.50 0.30 0.10 |
| HwA: Huggins----- | 85 | Somewhat limited Depth to bedrock Droughty Restricted permeability | 0.84 0.64 0.30 | Very limited Deep to water | 1.00 |
| KaA: Kadoka----- | 90 | Somewhat limited Depth to bedrock | 0.42 | Very limited Deep to water | 1.00 |
| KaB: Kadoka----- | 85 | Somewhat limited Depth to bedrock | 0.42 | Very limited Deep to water | 1.00 |
| KaC: Kadoka----- | 80 | Somewhat limited Depth to bedrock | 0.42 | Very limited Deep to water | 1.00 |
| KbC: Kadoka----- | 55 | Somewhat limited Depth to bedrock | 0.42 | Very limited Deep to water | 1.00 |
| Epping----- | 30 | Very limited Depth to bedrock Droughty Runoff limitation | 1.00 1.00 0.40 | Very limited Deep to water | 1.00 |
| KdC: Kadoka----- | 55 | Somewhat limited Depth to bedrock | 0.42 | Very limited Deep to water | 1.00 |

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|-----------------------------|---------------------------|--------------------------------------------------------------------------------|----------------------|---------------------------------------|-------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| Huggins----- | 30 | Somewhat limited Depth to bedrock Droughty Restricted permeability | 0.84 0.64 0.30 | Very limited Deep to water | 1.00 |
| KeA: Keith----- | 85 | Not limited | | Very limited Deep to water | 1.00 |
| KeB: Keith----- | 85 | Not limited | | Very limited Deep to water | 1.00 |
| KhD: Keith----- | 50 | Somewhat limited Slope | 0.16 | Very limited Deep to water | 1.00 |
| Colby----- | 35 | Somewhat limited Slope | 0.37 | Very limited Deep to water | 1.00 |
| KhE: Keith----- | 50 | Somewhat limited Slope | 0.37 | Very limited Deep to water | 1.00 |
| Colby----- | 35 | Very limited Slope | 1.00 | Very limited Deep to water | 1.00 |
| KrB: Keith----- | 55 | Not limited | | Very limited Deep to water | 1.00 |
| Rosebud----- | 35 | Somewhat limited Depth to bedrock Droughty | 0.42 0.15 | Very limited Deep to water | 1.00 |
| KsC: Keith----- | 40 | Not limited | | Very limited Deep to water | 1.00 |
| Rosebud----- | 30 | Somewhat limited Depth to bedrock Droughty | 0.42 0.15 | Very limited Deep to water | 1.00 |
| Canyon----- | 20 | Very limited Depth to bedrock Droughty Runoff limitation | 1.00 1.00 0.40 | Very limited Deep to water | 1.00 |

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|-----------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------|--------------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| KuC: Keith----- | 45 | Not limited | | Very limited Deep to water | 1.00 |
| Ulysses----- | 40 | Not limited | | Very limited Deep to water | 1.00 |
| KyA: Swanboy----- | 90 | Very limited Restricted permeability Runoff limitation Salinity Droughty | 1.00 0.40 0.35 0.03 | Very limited Deep to water | 1.00 |
| Lm: Interior----- | 80 | Very limited Flooding Sodium content | 1.00 1.00 | Very limited Deep to water | 1.00 |
| Mm: Mosher----- | 50 | Very limited Restricted permeability Sodium content Depth to saturated zone Runoff limitation | 1.00 1.00 0.84 0.40 | Very limited Deep to water | 1.00 |
| Minatare----- | 35 | Very limited Restricted permeability Sodium content Salinity Depth to saturated zone Runoff limitation | 1.00 1.00 1.00 1.00 0.40 | Somewhat limited Salty water Cutbanks cave Deep to water | 0.97 0.10 0.01 |
| OcE: Oglala----- | 50 | Somewhat limited Slope | 0.63 | Very limited Deep to water | 1.00 |
| Canyon----- | 30 | Very limited Depth to bedrock Droughty Slope Runoff limitation | 1.00 1.00 0.96 0.40 | Very limited Deep to water | 1.00 |

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| Map symbol and soil name | Pct. of map unit | Application of manure and food- processing waste | | Aquifer-fed excavated ponds | |
|-----------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------|-------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| PeC: Pierre----- | 85 | Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Sodium content | 1.00 1.00 0.42 0.40 0.18 | Very limited Deep to water | 1.00 |
| PsE: Pierre----- | 55 | Very limited Restricted permeability Slope Droughty Depth to bedrock Runoff limitation | 1.00 1.00 1.00 0.42 0.40 | Very limited Deep to water | 1.00 |
| Samsil----- | 30 | Very limited Restricted permeability Depth to bedrock Droughty Slope Runoff limitation | 1.00 1.00 1.00 1.00 0.40 | Very limited Deep to water | 1.00 |
| RkA: Keith----- | 45 | Not limited | | Very limited Deep to water | 1.00 |
| Richfield----- | 45 | Somewhat limited Restricted permeability | 0.30 | Very limited Deep to water | 1.00 |
| RkC: Keith----- | 45 | Not limited | | Very limited Deep to water | 1.00 |
| Richfield----- | 45 | Somewhat limited Restricted permeability | 0.30 | Very limited Deep to water | 1.00 |
| SpE: Samsil----- | 50 | Very limited Restricted permeability Depth to bedrock Droughty Slope Runoff limitation | 1.00 1.00 1.00 1.00 0.40 | Very limited Deep to water | 1.00 |

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|-----------------------------|---------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------|-------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| Pierre----- | 40 | Very limited Restricted permeability Droughty Slope Depth to bedrock Runoff limitation | 1.00 1.00 1.00 0.42 0.40 | Very limited Deep to water | 1.00 |
| Ss: Samsil----- | 50 | Very limited Slope Restricted permeability Depth to bedrock Droughty Runoff limitation | 1.00 1.00 1.00 1.00 0.40 | Very limited Deep to water | 1.00 |
| Rock Outcrop, Soft-- | 30 | Not rated | | Not rated | |
| Sw: Swanboy----- | 85 | Very limited Restricted permeability Runoff limitation Salinity Droughty | 1.00 0.40 0.35 0.03 | Very limited Deep to water | 1.00 |
| Te: Epping----- | 50 | Very limited Slope Depth to bedrock Droughty Runoff limitation | 1.00 1.00 1.00 0.40 | Very limited Deep to water | 1.00 |
| Mitchell----- | 30 | Very limited Slope | 1.00 | Very limited Deep to water | 1.00 |
| TnA: Tuthill----- | 45 | Very limited Filtering capacity | 1.00 | Very limited Deep to water | 1.00 |
| Anselmo----- | 40 | Very limited Filtering capacity | 1.00 | Very limited Deep to water | 1.00 |

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|------------------------------------------|---------------------------|--------------------------------------------------------------------------------------|------------------------------|---------------------------------------|-------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| TnC: Anselmo----- | 40 | Very limited Filtering capacity | 1.00 | Very limited Deep to water | 1.00 |
| Tuthill----- | 40 | Very limited Filtering capacity | 1.00 | Very limited Deep to water | 1.00 |
| TuA: Manter----- | 45 | Not limited | | Very limited Deep to water | 1.00 |
| Tuthill----- | 45 | Very limited Filtering capacity | 1.00 | Very limited Deep to water | 1.00 |
| TuB: Tuthill----- | 45 | Very limited Filtering capacity | 1.00 | Very limited Deep to water | 1.00 |
| Manter----- | 40 | Not limited | | Very limited Deep to water | 1.00 |
| TuC: Manter----- | 40 | Not limited | | Very limited Deep to water | 1.00 |
| Tuthill----- | 40 | Very limited Filtering capacity | 1.00 | Very limited Deep to water | 1.00 |
| Vs: Valentine----- | 85 | Very limited Filtering capacity Slope Leaching limitation Droughty | 1.00 0.96 0.45 0.29 | Very limited Deep to water | 1.00 |
| w: Water (less Than 40 Acres)----- | 100 | Not rated | | Not rated | |

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|-----------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------|----------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| Wa: Wanblee----- | 80 | Very limited Restricted permeability Droughty Salinity Depth to bedrock Runoff limitation | 1.00 0.67 0.50 0.42 0.40 | Very limited Deep to water | 1.00 |
| We: Loup----- | 50 | Very limited Depth to saturated zone Flooding Filtering capacity Runoff limitation Droughty | 1.00 1.00 1.00 0.40 0.05 | Very limited Cutbanks cave | 1.00 |
| Lamo----- | 30 | Very limited Flooding Depth to saturated zone Restricted permeability | 1.00 1.00 0.30 | Somewhat limited Slow refill Cutbanks cave Deep to water | 0.95 0.10 0.01 |
| Ww: Wortman----- | 50 | Very limited Restricted permeability Sodium content Salinity Droughty Depth to bedrock | 1.00 1.00 0.50 0.46 0.42 | Very limited Deep to water | 1.00 |
| Wanblee----- | 30 | Very limited Restricted permeability Droughty Salinity Depth to bedrock Runoff limitation | 1.00 0.67 0.50 0.42 0.40 | Very limited Deep to water | 1.00 |

